

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:

**November  
2006**

**Arnold Schwarzenegger**  
Governor  
State of California

**Mike Chrisman**  
Secretary for Resources  
The Resources Agency

**Lester A. Snow**  
Director  
Department of Water Resource

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://wwwoco.water.ca.gov>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Rewvisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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**LESTER A. SNOW, Director**

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The organization shown above represents staff and positions relevant to this report as of the publication date.  
It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of November 2006.

Statewide precipitation was 60 percent of average for the 2006-2006 water year as of November 30. Statewide runoff was 65 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: <http://cdec.water.ca.gov/snow-rain.html>.

End of month total storage for November 2006 in major SWP reservoirs was about 4.26 MAF, compared with about 4.24 MAF at this time in 2005. The average storage in the major SWP reservoirs at the end of November was about 4.61 MAF. The November 30 storage at Lake Oroville was about 2.68 MAF as compared to 2.62 MAF at this time in 2005. The State's share of San Luis Reservoir storage was about 1.09 TAF, as compared with 1.02 MAF at this time in 2005. On November 30, the combined storage in our southern reservoirs was about 494 TAF, compared with about 606 TAF at this time in 2005.

There were two minor earthquakes reported by DWR staff during the month of November, the 14<sup>th</sup> and the 17<sup>th</sup>. No facilities were found to require inspection.

Endangered Species Summary (Skinner/Tracy Fish Facility), Delta Smelt Update, season total for month ending November 2006, remains at 0, for the 2006-07 water year

Through November, 2006, SWP water deliveries were about 4.72 MAF. This is a combination of project, transfer, and exchange waters. Total water deliveries through this same period in 2005 were about 4.64 MAF.

On November 10, 2006, at Reid Gardner unit No. 4, coal pulverizer problems caused 4 limitations through out the day.

On November 14, 2006, at Devil Canyon Power Plant, operators were forced to deviate from power schedule at 20:32 due to high water level in the Afterbay.

On November 1, by mutual agreement, the United States Bureau of Reclamation and the California Department of Water Resources declared the Coordinated Operations Agreement (COA) to be in "Balanced Conditions". On November 26, the agencies declared the Coordinated Operations Agreement (COA) to be in "Excess Conditions", which remained through the end of the month. The end-of-month USBR-COA was 24,344 CFS.

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**November 2006**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Oct 31	4996.62	17,871									
1	4996.58	17,839	-32	20	0	0	0	2	22	6	
2	4996.58	17,839	0	20	0	0	0	2	22	22	
3	4996.57	17,831	-8	20	0	0	0	2	22	18	
4	4996.53	17,798	-33	20	0	0	0	2	22	5	
5	4996.49	17,766	-32	20	0	0	0	2	22	6	
6	4996.46	17,742	-24	20	0	0	0	2	22	10	
7	4996.42	17,709	-33	20	0	0	0	2	22	5	
8	4996.41	17,701	-8	20	0	0	0	2	22	18	
9	4996.38	17,677	-24	20	0	0	0	2	22	10	
10	4996.35	17,653	-24	20	0	0	0	2	22	10	
11	4996.32	17,629	-24	20	0	0	0	2	22	10	
12	4996.32	17,629	0	20	0	0	0	2	22	22	
13	4996.32	17,629	0	20	0	0	0	2	22	22	
14	4996.41	17,621	-8	20	0	0	0	2	22	18	
15	4996.29	17,605	-16	20	0	0	0	2	22	14	
16	4996.28	17,596	-9	20	0	0	0	2	22	17	
17	4996.24	17,564	-32	20	0	0	0	2	22	6	
18	4996.21	17,540	-24	20	0	0	0	2	22	10	
19	4996.18	17,516	-24	20	0	0	0	2	22	10	
20	4996.15	17,492	-24	20	0	0	0	2	22	10	
21	4996.16	17,500	8	20	0	0	0	2	22	26	
22	4996.15	17,492	-8	20	0	0	0	2	22	18	
23	4996.14	17,484	-8	20	0	0	0	2	22	18	
24	4996.10	17,452	-32	20	0	0	0	2	22	6	
25	4996.08	17,436	-16	20	0	0	0	2	22	14	
26	4996.05	17,412	-24	20	0	0	0	3	23	11	
27	4996.03	17,396	-16	20	0	0	0	3	23	15	
28	4996.00	17,372	-24	20	0	0	0	3	23	11	
29	4995.96	17,640	268	20	0	0	0	3	23	158	
30	4995.92	17,308	-332	20	0	0	0	3	23	-144	
Total cfs-days				---	600	0	0	65	665	381	
Total ac-ft				-563	1,190	0	0	129	1,319	756	

**Table 2. Frenchman Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**November 2006**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Oct 31	5579.01	42,376									
1	5579.00	42,362	-14	1	2	0	0	3	6	-1	
2	5579.04	42,416	54	1	2	0	0	3	6	33	
3	5579.04	42,416	0	1	2	0	0	3	6	6	
4	5579.04	42,416	0	1	2	0	0	3	6	6	
5	5579.03	42,403	-13	1	2	0	0	3	6	-1	
6	5579.03	42,403	0	1	2	0	0	3	6	6	
7	5579.02	42,389	-14	1	2	0	0	3	6	-1	
8	5579.01	42,376	-13	1	2	0	0	3	6	-1	
9	5579.01	42,376	0	1	2	0	0	3	6	6	
10	5579.01	42,376	0	1	2	0	0	3	6	6	
11	5579.01	42,376	0	1	2	0	0	3	6	6	
12	5579.01	42,376	0	1	2	0	0	3	6	6	
13	5579.03	42,403	27	1	2	0	0	4	7	21	
14	5579.03	42,403	0	1	2	0	0	4	7	7	
15	5579.01	42,376	-27	1	2	0	0	4	7	-7	
16	5579.02	42,389	13	1	2	0	0	4	7	14	
17	5579.02	42,389	0	1	2	0	0	4	7	7	
18	5579.02	42,389	0	1	2	0	0	4	7	7	
19	5579.01	42,376	-13	1	2	0	0	4	7	0	
20	5579.00	42,362	-14	1	2	0	0	4	7	0	
21	5579.03	42,403	41	1	2	0	0	4	7	28	
22	5579.02	42,389	-14	1	2	0	0	4	7	0	
23	5579.03	42,403	14	1	2	0	0	4	7	14	
24	5579.03	42,403	0	1	2	0	0	4	7	7	
25	5579.03	42,403	0	1	2	0	0	4	7	7	
26	5579.03	42,403	0	1	2	0	0	4	7	7	
27	5579.02	42,389	-14	1	2	0	0	4	7	0	
28	5579.02	42,389	0	1	2	0	0	4	7	7	
29	5579.01	42,376	-13	1	2	0	0	4	7	0	
30	5579.01	42,376	0	1	2	0	0	4	7	7	
Total cfs-days				---	30	60	0	0	108	198	198
Total ac-ft				0	60	119	0	0	214	393	393

1/ Last Chance Creek Water District

**Table 3. Lake Davis**

Daily Operation  
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**November 2006**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right 1/					
Oct 31	5767.07	55,681									
1	5767.04	55,585	-96	23	0	0.2	0	8	31	-17	
2	5767.10	55,778	193	23	0	0.2	0	8	31	128	
3	5767.10	55,778	0	23	0	0.2	0	8	31	31	
4	5767.10	55,778	0	23	0	0.2	0	8	31	31	
5	5767.09	55,746	-32	23	0	0.2	0	8	31	15	
6	5767.08	55,713	-33	23	0	0.2	0	8	31	14	
7	5767.06	55,649	-64	23	0	0.2	0	8	31	-1	
8	5767.08	55,713	64	23	0	0.2	0	8	31	63	
9	5767.08	55,713	0	23	0	0.2	0	8	31	31	
10	5767.08	55,713	0	23	0	0.2	0	8	31	31	
11	5767.08	55,713	0	23	0	0.2	0	8	31	31	
12	5767.08	55,713	0	23	0	0.2	0	8	31	31	
13	5767.06	55,649	-64	23	0	0.2	0	9	32	0	
14	5767.03	55,553	-96	23	0	0.2	0	9	32	-16	
15	5766.97	55,362	-191	51	0	0.2	0	9	60	-36	
16	5766.97	55,362	0	50	0	0.2	0	9	59	59	
17	5766.96	55,330	-32	18	0	0.2	0	9	27	11	
18	5766.96	55,330	0	23	0	0.2	0	9	32	32	
19	5766.93	55,234	-96	23	0	0.2	0	9	32	-16	
20	5766.93	55,234	0	23	0	0.2	0	9	32	32	
21	5766.93	55,234	0	23	0	0.2	0	9	32	32	
22	5766.94	55,266	32	23	0	0.2	0	9	32	48	
23	5766.94	55,266	0	23	0	0.2	0	9	32	32	
24	5766.93	55,234	-32	23	0	0.2	0	9	32	16	
25	5766.91	55,171	-63	23	0	0.2	0	9	32	0	
26	5766.88	55,075	-96	23	0	0.2	0	9	32	-16	
27	5766.90	55,139	64	23	0	0.2	0	9	32	64	
28	5766.90	55,139	0	23	0	0.2	0	9	32	32	
29	5766.88	55,075	-64	23	0	0.2	0	9	32	0	
30	5766.85	54,980	-95	23	0	0.2	0	9	32	-16	
Total cfs-days				---	734	0	6	0	258	998	644
Total ac-ft				-701	1,456	0	12	0	511	1,979	1,278

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli)

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

**November 2006**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow						Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Deliveries to Lime Saddle Marina	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Oct 31	846.33	2,759,424									
	1	2,752,143	-7,281	13,960	14	0	171	0	14,145	0	6,864
	2	2,748,706	-3,437	8,534	12	0	0	0	8,546	0	5,109
	3	2,744,613	-4,093	11,689	12	0	0	0	11,701	0	7,608
	4	2,740,128	-4,485	9,180	12	0	108	0	9,300	0	4,815
	5	2,742,369	2,241	3,829	12	0	0	0	3,841	0	6,082
	6	2,735,516	-6,853	11,460	12	0	78	0	11,550	0	4,697
	7	2,725,127	-10,389	14,252	12	0	58	0	14,322	0	3,933
	8	2,718,959	-6,168	10,497	12	0	58	0	10,567	0	4,399
	9	2,715,682	-3,277	9,255	12	0	145	0	9,412	0	6,135
	10	2,707,699	-7,983	11,593	12	0	87	0	11,692	0	3,709
	11	2,704,954	-2,745	9,275	12	0	48	0	9,335	0	6,590
	12	2,709,007	4,053	2,848	12	0	39	0	2,899	0	6,952
	13	2,705,085	-3,922	10,296	11	0	58	0	10,365	0	6,443
	14	2,702,473	-2,612	9,536	12	0	10	0	9,558	0	6,946
	15	2,701,167	-1,306	7,292	12	0	19	0	7,323	0	6,017
	16	2,697,384	-3,783	8,841	12	0	68	0	8,921	0	5,138
	17	2,697,253	-131	7,765	12	0	10	0	7,787	0	7,656
	18	2,702,734	5,481	2,695	12	0	48	0	2,755	0	8,236
	19	2,705,216	2,482	5,875	12	0	29	0	5,916	0	8,398
	20	2,701,167	-4,049	12,492	9	0	39	0	12,540	0	8,491
	21	2,695,950	-5,217	12,167	7	0	39	0	12,213	0	6,996
	22	2,693,864	-2,086	9,599	7	0	48	0	9,654	0	7,568
	23	2,700,123	6,259	1,454	7	0	77	0	1,538	0	7,797
	24	2,700,123	0	6,532	7	0	97	0	6,636	0	6,636
	25	2,700,123	0	6,552	6	0	68	0	6,626	0	6,626
	26	2,703,125	3,002	4,099	6	0	0	0	4,105	0	7,107
	27	2,689,178	-13,947	19,794	6	0	29	0	19,829	0	5,882
	28	2,692,823	3,645	3,216	5	0	29	0	3,250	0	6,895
	29	2,688,657	-4,166	10,218	4	0	77	0	10,299	0	6,133
	30	2,680,26	-8,837	12,847	5	0	174	0	13,026	0	4,189
<b>Total</b>				<b>-79,604</b>	<b>267,642</b>	<b>293</b>	<b>0</b>	<b>1,711</b>	<b>0</b>	<b>269,646</b>	<b>0</b>
1/ Includes bypass flows											
2/ South Feather Water and Power Agency											
3/ Evaporation will be zero for days when there is precipitation or heavy overcast.											
4/ Does not include pumpback.											

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation  
(in acre-feet except as noted)

**November 2006**

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County 4/	Thermalito Irrigation District	Releases To River 5/	Hyatt Powerplant Pumpback	
Oct 31	23,556										
1	23,599	43	13,960	512	0	11,314	1	1	1,372	0	-1,741
2	23,635	36	8,534	512	0	7,972	1	1	1,378	0	342
3	23,941	306	11,689	511	0	10,756	0	1	1,382	0	245
4	24,182	241	9,180	512	0	8,364	0	1	1,380	0	294
5	23,748	-434	3,829	512	0	3,560	0	1	1,382	0	168
6	23,532	-216	11,460	512	0	11,074	0	1	1,376	0	263
7	23,716	184	14,252	511	0	13,568	0	1	1,372	0	362
8	23,061	-655	10,497	512	0	10,675	0	1	1,370	0	382
9	23,874	813	9,255	512	0	7,790	0	1	1,392	0	229
10	23,903	29	11,593	512	0	9,695	0	1	1,396	0	-984
11	23,555	-348	9,275	512	0	9,128	0	1	1,382	0	376
12	24,140	585	2,848	514	0	1,502	0	1	1,386	0	112
13	23,852	-288	10,296	513	0	9,930	0	1	1,392	0	226
14	24,289	437	9,536	512	0	8,430	0	1	1,392	0	212
15	24,175	-114	7,292	512	0	6,766	0	1	1,390	0	239
16	23,519	-656	8,841	513	0	8,838	0	1	1,384	0	213
17	23,595	76	7,765	514	0	7,002	0	1	1,380	0	180
18	24,000	405	2,695	514	0	1,564	0	1	1,378	0	139
19	23,838	-162	5,875	514	0	2,539	0	1	1,386	0	-2,625
20	23,349	-489	12,492	514	0	13,817	0	1	1,394	0	1,717
21	23,249	-100	12,167	515	0	12,898	0	1	1,380	0	1,497
22	23,609	360	9,599	514	0	8,618	0	1	1,384	0	250
23	24,273	664	1,454	514	0	78	0	1	1,382	0	157
24	24,074	-199	6,532	513	0	6,028	0	1	1,396	0	181
25	24,019	-55	6,552	513	0	5,888	0	1	1,386	0	155
26	23,842	-177	4,099	513	0	4,383	0	0	1,390	0	984
27	24,013	171	19,794	511	0	18,341	0	0	1,396	0	-397
28	23,735	-278	3,216	512	0	2,732	0	0	1,388	0	114
29	23,460	-275	10,218	511	0	9,826	0	0	1,380	0	202
30	23,271	-189	12,847	427	0	12,374	0	0	1,374	0	285
Total		-285	267,642	15,293	0	245,450	2	25	41,520	0	3,777

1/ Sum of Thermalito Forebay and Diversion Pool.

4/ Includes 2 AF of entitlement water to Del Oro WD.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

5/ The sum of the flows from fish barrier dam and the fish hatchery.

3/ Includes Bypass flows at Thermalito.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

**November 2006**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Oct 31	127.80	25,235										
1	128.92	28,657	3,422	11,314	1,460	0	830	1,620	3,669	0	-313	5,041
2	128.92	28,657	0	7,972	1,950	0	830	1,750	3,669	0	227	5,047
3	129.61	30,868	2,211	10,756	1,930	0	830	1,700	3,669	0	-416	5,051
4	129.74	31,293	425	8,364	1,890	0	830	1,630	3,650	0	61	5,030
5	128.28	26,676	-4,617	3,560	1,890	0	830	1,630	3,650	0	-177	5,032
6	129.13	29,321	2,645	11,074	1,890	0	830	1,660	3,650	0	-399	5,026
7	130.78	34,793	5,472	13,568	1,930	8	810	1,710	3,650	0	12	5,022
8	131.33	36,714	1,921	10,675	1,890	12	790	1,730	3,650	0	-683	5,020
9	131.19	36,221	-493	7,790	1,880	12	790	1,650	3,650	0	-302	5,042
10	132.19	39,815	3,594	9,695	1,890	12	790	1,580	3,669	0	1,840	5,065
11	132.26	40,072	257	9,128	1,880	12	790	1,580	3,669	0	-940	5,051
12	130.44	33,629	-6,443	1,502	1,880	12	790	1,580	3,650	0	-33	5,036
13	131.13	36,010	2,381	9,930	1,870	11	790	1,360	3,669	0	151	5,061
14	131.31	36,643	633	8,430	1,860	12	790	1,080	3,669	0	-387	5,061
15	131.14	36,045	-598	6,766	1,870	12	790	1,000	3,650	0	-43	5,040
16	131.50	37,318	1,273	8,838	1,870	12	790	900	3,669	0	-324	5,053
17	131.46	37,175	-143	7,002	1,870	16	790	790	3,650	0	-29	5,030
18	129.81	31,523	-5,652	1,564	1,870	22	790	790	3,650	0	-94	5,028
19	128.34	26,859	-4,664	2,539	1,870	22	790	790	3,650	0	-81	5,036
20	129.91	31,853	4,994	13,817	1,870	24	810	820	3,669	0	-1,630	5,063
21	131.17	36,150	4,297	12,898	1,860	24	810	870	3,669	0	-1,368	5,049
22	131.49	37,282	1,132	8,618	1,860	24	810	890	3,669	0	-233	5,053
23	129.34	29,993	-7,289	78	1,850	26	810	880	3,650	0	-151	5,032
24	128.93	28,688	-1,305	6,028	1,850	26	810	890	3,650	0	-107	5,046
25	128.43	27,134	-1,554	5,888	1,860	26	810	890	3,650	0	-206	5,036
26	127.31	23,803	-3,331	4,383	1,860	26	810	890	3,650	0	-478	5,040
27	130.91	35,243	11,440	18,341	1,810	26	820	830	3,669	0	254	5,065
28	129.57	30,737	-4,506	2,732	1,770	26	770	780	3,669	0	-223	5,057
29	130.34	33,291	2,554	9,826	1,790	26	750	810	3,650	0	-246	5,030
30	131.73	38,142	4,851	12,374	1,800	24	750	840	3,669	0	-440	5,043
Total		12,907		245,450	55,620	447	24,030	35,920	109,766	0	-6,760	151,286

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

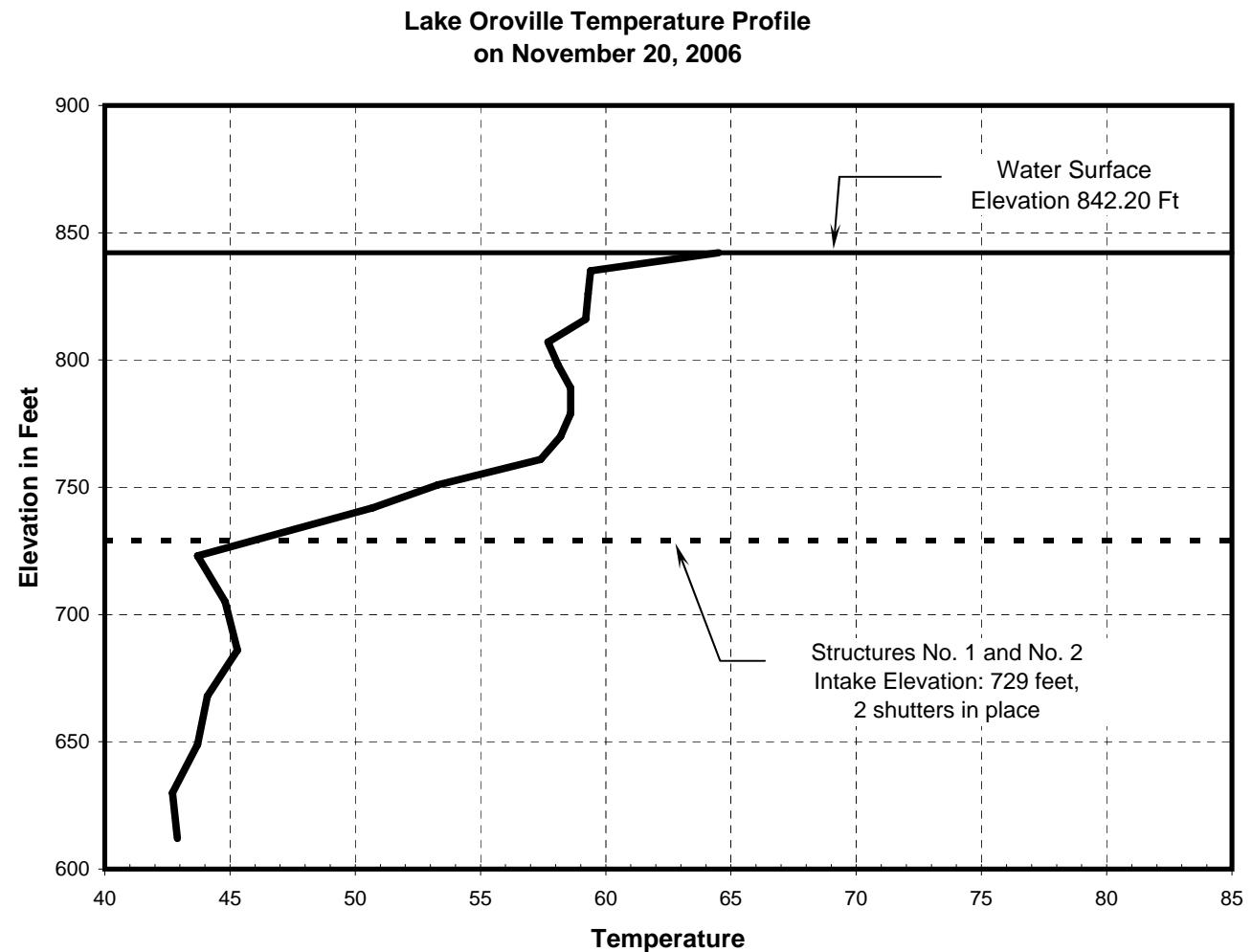
**Table 7. Oroville-Thermalito Complex**

Water Temperature Data

(in degrees Fahrenheit)

**November 2006**

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	54	51
2	54	52
3	54	51
4	53	52
5	54	51
6	54	52
7	54	52
8	55	52
9	54	52
10	54	52
11	53	52
12	51	52
13	51	52
14	51	52
15	51	52
16	52	53
17	52	52
18	54	52
19	54	52
20	53	52
21	54	52
22	53	52
23	53	52
24	52	52
25	51	51
26	50	51
27	49	51
28	48	51
29	47	51
30	47	52



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**November 2006**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A			Permit	Article 21	
	No.	Structure	Mile	M & I		Benicia	Vallejo				
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	4,911	97	97	271	27	1,550	
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	97						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	298						
				Solano County Water Agency Fairfield / Vacaville 42"	1,550						
			17.00	Solano County Water Agency Central Solano	Stub						
2	3A	Cordelia Forebay	21.23			1/ 987	2/ 88	199	160	928	
		Cordelia Pumping Plant & Cordelia Spillway	21.30		2,813						
3B	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,274	240	211	0	0	0	
				Solano County Water Agency Benicia	1,088						
		Cordelia Surge Tank	23.33								
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	0						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	240						
			27.60	Napa County Flood Control & WCD American Canyon 1	211						

1/ Includes 12 AF of Napa Co. FC&WCD entitlement through Solano Co.'s turnout (Reach 3A) for delivery to American Canyon and 975 AF of Solano County WA entitlement to the City of Vallejo.

2/ Solano Permit sold to Napa (Reach 3B) for delivery to American Canyon.

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

**November 2006**

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	192	102	8,967	8,967	90	0	0	183
2	188	98	8,918	8,918	14	0	0	213
3	170	83	9,292	9,292	0	0	0	220
4	194	108	10,606	10,606	182	0	0	222
5	149	83	9,008	9,008	170	0	0	177
6	171	84	11,639	11,639	225	0	0	193
7	186	95	8,968	8,968	248	0	0	185
8	178	90	8,615	8,615	222	0	0	153
9	182	97	11,292	11,292	232	0	0	174
10	189	99	9,340	9,340	218	0	0	174
11	168	90	9,603	9,603	228	0	0	160
12	146	84	11,326	11,326	164	0	0	155
13	151	78	8,614	8,614	113	0	0	106
14	161	87	8,509	8,509	99	0	0	57
15	159	94	9,328	9,328	97	0	0	39
16	141	77	10,978	10,978	110	0	0	21
17	137	79	10,861	10,861	113	0	0	38
18	145	88	10,529	10,529	144	0	0	57
19	136	84	10,740	10,740	148	0	0	116
20	136	81	11,134	11,134	184	0	0	116
21	133	85	10,341	10,341	160	0	0	116
22	162	86	12,969	12,969	176	0	0	116
23	171	108	10,601	10,601	155	0	0	116
24	173	104	10,985	10,985	155	0	0	120
25	167	104	11,483	11,483	184	0	0	135
26	157	107	12,846	12,846	167	0	0	136
27	160	103	13,163	13,163	124	0	0	106
28	175	108	13,160	13,160	111	0	0	77
29	186	129	13,111	13,111	93	0	0	74
30	148	98	13,437	13,437	93	0	0	58
Total	4,911	2,813	320,363	320,363	4,419	0	0	3,813

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

**November 2006**

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	2:30	8:30	11:30	18:30					10,099
2	0:01	1:15	3:30	9:00	12:45	19:48			9,105
3	1:00	14:00	17:30	21:46					10,683
4	2:00	14:45	17:30	20:30					9,316
5	2:30	15:05	21:00	23:00					9,309
6	0:01	0:30	3:30	16:00					11,488
7	0:01	1:15	4:15	15:45					9,312
8	0:03	2:00	5:00	13:05					8,508
9	0:01	2:45	5:45	17:30					10,905
10	00:00	00:00	00:00	00:01					8,717
11	0:01	4:45	7:45	16:15					9,903
12	0:01	5:45	8:45	17:30					9,888
13	0:15	6:45	9:45	21:30					9,902
14	1:30	7:30	10:30	23:00					9,907
15	0:10	0:45	2:45	8:15	11:15	18:00			9,909
16	0:30	13:00	16:00	21:25					10,504
17	1:15	13:30	16:30	20:45					10,904
18	1:45	14:15	17:00	22:20					10,701
19	2:15	14:45	17:30	20:30					10,697
20	2:45	15:15	17:45	20:19					11,285
21	3:30	16:00	18:30	20:30					11,288
22	0:01	1:00	4:00	16:30					11,290
23	0:01	1:30	4:30	17:00					11,290
24	0:01	2:30	5:30	18:10					11,286
25	0:01	3:11	6:15	18:30					11,289
26	0:01	4:00	7:00	20:15					13,234
27	0:01	5:00	8:00	21:10					13,249
28	0:01	5:35	8:45	23:00					13,225
29	0:45	6:00	9:45	---					11,325
30	---	0:01	2:15	7:45	10:45	21:00			11,761
Total inflow for the month in AF:									320,279

**Table 11. Governor Edmund G. Brown California Aqueduct**  
 Delta Field Division, Monthly Deliveries

(In acre-feet)

**November 2006**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	USBR	Local	Loan Water	Local Other	
	No.	Structure	Mile							
1	1		1.83	Byron Bethany Irrigation District	45	6	41		45	
		Banks Pumping Plant	3.32		320,363					
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aqueduct)	4,419					
		Check No. 1	5.95							
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	6					
	2	Check No. 2	12.01			41				
			12.47	Musco Olive	41					
		Check No. 3	18.29							
	4		22.16	Tracy Golf & Country Club	0	7	54	1	9	
		Check No. 4	23.99							
2A	5	Check No. 5	29.73			7	54	1	9	
		Check No. 6	34.24							
	7		35.22	Turlock Fruit Company Inflow	0	28		0	0	
		Check No. 7	39.91							
	8		42.46	Oak Flat Water District-A	7	28		0	0	
			42.9	Western Hills WD	54					
			43.81	Oak Flat Water District-B	1					
			44.64	Oak Flat Water District-C	9					
		Check No. 8	45.97							
	9		46.18	Oak Flat Water District-D	28	45	0	0	0	
				Oak Flat Totals:	45					
2B	Check No. 9	51.3				2				
	Check No. 10	56.86								
	Check No. 11	61.4								
		66.14		Veteran's Cemetery	2					
	Check No. 12	66.71			310,705					

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**November 2006**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Article 21	Purchase Pool B	Local	Rec.	
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	4,419	2	1	740	740	740	
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	2						
		Check No. 1	3.91								
	2	Check No. 2	5.21								
	3		7.15	Zone 7 Water Agency Altamont	1						
		Check No. 3	9.49	Zone 7 Water Agency Patterson Inflow Exchange Project Water	0						
2	4	Check No. 4	10.68								
	5	Check No. 5	12.29								
	6		13.55	Zone 7 Water Agency Wente #1	8	8	3	317	317	317	
			14.16	Zone 7 Water Agency Wente #2	3						
			14.31	Zone 7 Water Agency Ising	0						
		Check No. 6	14.65								
	7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water	317						
		Check No. 7	16.38								
	3		16.57	Zone 7 Water Agency Wente #3	0	12	1	366	366	366	
			16.63	Zone 7 Water Agency Wente #4	12						
			16.69	Zone 7 Water Agency Norman Nursery	0						
			16.70	Zone 7 Water Agency Concannon Project Water	1						
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	0						
				Pumped into South Bay Aqueduct	0						
				Gravity into South Bay Aqueduct	3,813						
		Deliveries through Del Valle Branch Pipeline		Zone 7 Water Agency Arroyo Valle #1 & #2							
				Storage Exchange	0						
				Project Water	366						
				Storage Released	0						
				Inflow Release	59						
				East Bay Regional Park Dist.							
4	4	Del Valle Branch Pipeline		Del Valle Recreation	7	9	5	1,660	1,660	1,660	
				Zone 7 Water Agency Wente #5	9						
				Zone 7 Water Agency So. Livermore Project							
			19.20	Inflow Released	0						
				Project Water	1,660						
5	5	Del Valle Branch Pipeline		Storage Release	70	9	5	70	70	70	
				Storage Exchange	0						
			19.21	Zone 7 Water Agency Kalthrof Detjens	5						
6	6	La Costa Tunnel	22.50	ACWD		9	5	5	5	5	
				Vallecitos Project Water	0						
7	7	La Costa Tunnel	25.97	City of San Francisco		9	5	5	5	5	
				San Antonio	0						
8	8	Mission Tunnel	28.97	ACWD - Bayside 1 & 2		9	5	5	5	5	
				Inflow Release	0						
9	9	Santa Clara Pipeline	35.86	Storage Released	0	9	5	5	5	5	
				Storage Exchange	0						
				Project Water	1,483	9	5	5	5	5	
				S.C.V.W.D. Meter	3,480						

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

November 2006

(in acre-feet except as noted)

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Oct 31	688.07	30,231									
1	687.75	30,044	-188	-1	0	0	183	0	3	186	0.00
2	687.39	29,834	-210	5	0	0	213	0	2	215	0.18
3	687.02	29,619	-215	7	0	0	220	0	2	222	0.18
4	686.64	29,400	-219	5	0	0	222	0	2	224	0.00
5	686.33	29,222	-178	2	0	0	177	0	3	180	0.00
6	685.97	29,017	-205	-9	0	0	193	0	3	196	0.00
7	685.65	28,835	-182	7	0	0	185	0	3	188	0.00
8	685.34	28,660	-175	-20	0	0	153	0	2	155	0.00
9	685.06	28,502	-157	21	0	0	174	0	4	178	0.00
10	684.74	28,323	-179	0	0	0	174	0	5	179	0.00
11	684.47	28,173	-150	14	0	0	160	0	4	164	0.23
12	684.19	28,018	-155	3	0	0	155	0	3	158	0.00
13	684.03	27,929	-88	21	0	0	106	0	3	109	0.08
14	683.97	27,896	-33	24	0	0	57	0	0	57	0.53
15	683.93	27,874	-22	19	0	0	39	0	2	41	0.00
16	683.90	27,858	-17	7	0	0	21	0	2	23	0.00
17	683.84	27,825	-33	8	0	0	38	0	3	41	0.00
18	683.74	27,770	-55	2	0	0	57	0	0	57	0.00
19	683.51	27,644	-126	-9	0	0	116	0	1	117	0.00
20	683.28	27,518	-126	-7	0	0	116	0	2	118	0.00
21	683.07	27,404	-114	3	0	0	116	0	2	118	0.00
22	682.84	27,280	-125	-6	0	0	116	0	2	118	0.00
23	682.60	27,150	-129	-10	0	0	116	0	3	119	0.05
24	682.38	27,032	-118	7	0	0	120	1	4	125	0.00
25	682.10	26,882	-150	-10	0	0	135	1	3	139	0.00
26	681.87	26,760	-122	17	0	0	136	1	2	139	0.00
27	681.67	26,654	-106	1	0	0	106	1	0	107	0.28
28	681.50	26,580	-74	5	0	0	77	1	1	79	0.02
29	681.30	26,505	-75	3	0	0	74	1	3	78	0.00
30	681.18	26,396	-109	-47	0	0	58	1	4	63	0.00
Total		-3,836	58	0	0	3,813	7	74	3,894	1.55	

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Includes 59 AF of natural inflow released, 3,684 AF of project water released, and 70 AF of stored water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

**November 2006**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Oct 31	220.98	45,708											
1	221.16	46,180	472	0	2,821	0	4,432	0	1,753	5,686	6	430	
2	220.50	44,453	-1,727	0	2,805	0	3,793	0	1,814	5,878	3	226	
3	221.01	45,787	1,334	0	2,824	0	4,901	0	2,088	5,087	3	126	
4	221.98	48,334	2,547	0	2,833	0	5,456	0	1,809	5,280	3	87	
5	222.05	48,517	183	0	2,819	0	4,003	0	2,087	4,934	3	294	
6	223.45	52,250	3,733	0	2,768	0	5,589	0	1,814	4,424	3	-234	
7	224.15	54,131	1,881	0	2,817	0	4,882	0	2,247	4,615	3	114	
8	223.50	52,384	-1,747	0	2,892	0	3,764	0	3,486	4,376	6	331	
9	224.11	54,023	1,639	0	2,845	0	5,477	0	3,437	4,256	5	202	
10	223.99	53,700	-323	0	2,834	0	4,971	0	3,355	4,668	5	60	
11	223.74	53,027	-673	0	2,905	0	4,849	0	3,914	4,349	5	175	
12	223.31	51,875	-1,152	0	2,914	0	5,378	0	5,305	3,851	5	288	
13	223.69	52,893	1,018	0	2,831	0	4,136	0	2,616	3,770	5	-63	
14	222.56	49,873	-3,020	0	2,783	0	4,001	0	4,737	3,874	5	309	
15	221.59	47,309	-2,564	0	2,861	0	4,651	0	5,342	3,637	8	182	
16	221.98	48,334	1,025	0	2,995	0	5,299	0	4,194	3,691	4	112	
17	222.26	49,075	741	0	3,025	0	5,624	0	4,073	4,451	4	253	
18	222.29	49,155	80	0	3,087	0	5,215	0	4,083	4,606	4	431	
19	221.30	46,547	-2,608	0	3,095	0	5,414	0	5,386	4,616	4	182	
20	221.35	46,679	132	0	3,097	0	5,174	0	3,165	5,149	4	114	
21	219.58	42,067	-4,612	0	3,131	0	5,060	0	5,166	5,580	4	234	
22	221.04	45,865	3,798	0	3,182	188	6,158	0	2,863	5,096	5	351	
23	220.51	44,479	-1,386	0	3,279	0	5,231	0	3,586	5,685	3	65	
24	221.01	45,787	1,308	0	3,229	0	5,440	0	2,701	4,970	3	-336	
25	221.21	46,311	524	0	3,222	0	5,643	0	2,504	6,177	3	83	
26	221.21	46,311	0	0	3,247	0	6,154	0	3,379	5,855	3	-164	
27	223.04	51,153	4,842	0	3,226	0	6,282	0	4,637	2,822	3	395	
28	224.33	54,616	3,463	0	3,162	0	6,567	0	6,708	1,780	3	508	
29	223.18	51,527	-3,089	0	3,149	0	6,729	0	6,174	5,345	4	88	
30	222.93	50,859	-668	0	3,097	0	6,377	0	4,065	5,784	7	45	
Total				5,151	0	89,775	188	156,650	0	108,488	140,292	126	4,890
Mean cfs				- - -	0	2,993	6	5,222	0	3,616	4,676	4	163
Acre-feet				5,151	0	178,067	373	310,705	0	215,185	278,268	249	9,708

1/ Pump-in located at Mile 79.67R.

2/ Includes 56 AF delivered to DFG at O'Neill Forebay and 193 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

**November 2006**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 2,027,835 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Oct 31	495.90	1,460,894							
1	496.20	1,464,301	3,407	1,753	0	252	0	217	
2	496.40	1,466,573	2,272	1,814	0	244	0	-425	
3	496.70	1,469,984	3,411	2,088	0	211	0	-157	
4	497.00	1,473,398	3,414	1,809	0	136	0	48	
5	497.26	1,476,358	2,960	2,087	0	122	0	-473	
6	497.59	1,480,119	3,761	1,814	0	141	0	223	
7	497.91	1,483,769	3,650	2,247	0	131	0	-276	
8	498.44	1,489,820	6,051	3,486	0	127	0	-308	
9	498.95	1,495,651	5,831	3,437	0	126	0	-371	
10	499.46	1,501,490	5,839	3,355	0	134	0	-277	
11	500.09	1,508,714	7,224	3,914	0	127	0	-145	
12	501.00	1,519,168	10,454	5,305	0	144	0	109	
13	501.40	1,523,771	4,603	2,616	0	202	0	-93	
14	502.10	1,531,838	8,067	4,737	0	209	0	-461	
15	502.89	1,540,960	9,122	5,342	0	207	0	-536	
16	503.53	1,548,363	7,403	4,194	0	201	0	-261	
17	504.06	1,554,503	6,140	4,073	0	200	0	-777	
18	504.71	1,562,044	7,541	4,083	0	164	0	-117	
19	505.52	1,571,459	9,415	5,386	0	130	0	-509	
20	506.02	1,577,281	5,822	3,165	0	136	0	-94	
21	506.81	1,586,493	9,212	5,166	0	134	0	-388	
22	507.20	1,591,048	4,555	2,863	188	132	0	-247	
23	507.74	1,597,363	6,315	3,586	0	136	0	-266	
24	508.15	1,602,162	4,799	2,701	0	138	0	-144	
25	508.50	1,606,264	4,102	2,504	0	134	0	-302	
26	509.10	1,613,303	7,039	3,379	0	128	0	298	
27	509.74	1,620,823	7,520	4,637	0	160	0	-686	
28	510.75	1,632,714	11,891	6,708	0	154	0	-559	
29	511.63	1,643,100	10,386	6,174	0	152	0	-786	
30	512.30	1,651,022	7,922	4,065	0	291	1	221	
Total			190,128	108,488	188	4,903	1	-7,542	
Mean cfs			---	3,616	6	163	0	-251	
Acre-feet			190,128	215,185	373	9,719	1	-14,964	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 9,177 AF, Casa De Fruta: 1 AF, and San Benito: 541 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**November 2006**

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	11,278	9,330	0	0	3,477	155	500
2	11,660	9,619	0	0	3,598	-116	484
3	10,090	8,097	0	0	4,141	-149	419
4	10,472	8,466	0	0	3,588	-122	270
5	9,786	7,779	0	0	4,139	-151	241
6	8,775	6,761	0	0	3,598	616	279
7	9,154	7,106	0	0	4,456	3,590	259
8	8,680	6,616	0	0	6,915	5,751	252
9	8,441	6,408	0	0	6,818	5,947	249
10	9,258	7,209	0	0	6,655	3,217	266
11	8,627	6,660	0	0	7,764	4,906	252
12	7,638	5,696	0	0	10,522	7,145	286
13	7,478	5,448	0	0	5,189	1,767	401
14	7,685	5,549	0	0	9,395	5,121	414
15	7,213	6,205	0	0	10,595	5,521	410
16	7,322	6,329	0	0	8,319	3,255	398
17	8,828	7,830	0	0	8,078	2,219	397
18	9,136	8,138	0	0	8,098	1,923	325
19	9,156	8,117	0	0	10,684	4,319	257
20	10,214	9,232	0	0	6,278	1,925	270
21	11,067	10,094	0	0	10,247	5,999	265
22	10,108	9,138	373	373	5,679	609	261
23	11,277	10,760	0	0	7,113	-53	270
24	9,858	9,310	0	0	5,358	1,136	273
25	12,252	11,680	0	0	4,967	392	265
26	11,614	11,101	0	0	6,702	-74	254
27	5,597	5,229	0	0	9,198	2,048	317
28	3,530	3,136	0	0	13,305	6,248	305
29	10,601	10,032	0	0	12,247	6,461	302
30	11,473	10,895	0	0	8,062	2,042	577
Total	278,268	237,970	373	373	215,185	81,647	9,718

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations  
November 2006

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Oct 31	326.41	19,846					
1	326.41	19,929	83	0	0	0	83
2	326.41	19,929	0	0	0	0	0
3	326.41	19,929	0	0	0	0	0
4	326.39	19,919	-10	0	0	0	-10
5	326.39	19,919	0	0	0	0	0
6	326.39	19,919	0	0	0	0	0
7	326.39	19,919	0	0	0	0	0
8	326.37	19,910	-9	0	0	0	-9
9	326.34	19,896	-14	0	0	0	-14
10	326.33	19,892	-4	0	0	0	-4
11	326.32	19,887	-5	0	0	0	-5
12	326.32	19,887	0	0	0	0	0
13	326.33	19,892	5	3	0	0	-1
14	326.33	19,892	0	0	0	0	0
15	326.33	19,892	0	0	0	0	0
16	326.33	19,892	0	0	0	0	0
17	326.33	19,892	0	0	0	0	0
18	326.32	19,887	-5	0	0	0	-5
19	326.31	19,882	-5	0	0	0	-5
20	326.30	19,878	-4	0	0	0	-4
21	326.30	19,878	0	0	0	0	0
22	326.30	19,878	0	0	0	0	0
23	326.28	19,869	-9	0	0	0	-9
24	326.28	19,869	0	0	0	0	0
25	326.27	19,864	-5	0	0	0	-5
26	326.27	19,864	0	0	0	0	0
27	326.26	19,859	-5	0	0	0	-5
28	326.25	19,855	-4	0	0	0	-4
29	326.22	19,841	-14	0	0	0	-14
30	326.23	19,846	5	3	0	0	-1
Total			0	6	0	0	-12
Mean cfs			---	0	0	0	---
Acre-feet			0	12	0	0	-12

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

November 2006

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Oct 31	601.30	752					
1	601.30	752	0	0	0	0	0
2	601.30	752	0	0	0	0	0
3	601.30	752	0	0	0	0	0
4	601.30	752	0	0	0	0	0
5	601.30	752	0	0	0	0	0
6	601.30	752	0	0	0	0	0
7	601.30	752	0	0	0	0	0
8	601.30	752	0	0	0	0	0
9	601.30	752	0	0	0	0	0
10	601.30	752	0	0	0	0	0
11	601.30	752	0	0	0	0	0
12	601.30	752	0	0	0	0	0
13	601.30	752	0	0	0	0	0
14	601.00	736	-16	0	0	0	-16
15	601.00	736	0	0	0	0	0
16	601.00	736	0	0	0	0	0
17	601.00	736	0	0	0	0	0
18	601.00	736	0	0	0	0	0
19	601.00	736	0	0	0	0	0
20	601.00	736	0	0	0	0	0
21	601.00	736	0	0	0	0	0
22	601.00	736	0	0	0	0	0
23	601.00	736	0	0	0	0	0
24	601.00	736	0	0	0	0	0
25	601.00	736	0	0	0	0	0
26	601.00	736	0	0	0	0	0
27	601.00	736	0	0	0	0	0
28	601.00	736	0	0	0	0	0
29	601.00	736	0	0	0	0	0
30	601.00	736	0	0	0	0	0
Total			-16	0	0	0	-16
Mean cfs			---	0	0	0	---
Acre-feet			-16	0	0	0	-16

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

(In acre-feet)

**November 2006**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		Structure			USBR	Transfer	DWR	USBR	
	No.	Structure	Mile	Recreation				Recreation		
2B	12	Check No. 12	66.71		310,705					
3A	3A	San Luis Reservoir		Department of Parks and Recreation	1	9,177	1	1	0	
				San Felipe Division Santa Clara Water District	9,177					
				Casa de Fruita Santa Clara Water District	1					
				San Felipe Division San Benito Water District	541	541				
				Reach 3A Subtotal:	9,720	9,719	0	1	0	
3	3	O'Neill Forebay	70.85	Department of Parks and Recreation	0	0	0	0	0	
				Cattle Program	0			0	0	
				Department of Fish & Game	56			31	25	
			70.91 Thru 85.08	San Luis Water District	193	193	0			
				(Floodwater Inflow)	0					
				Reach 3 Subtotal:	249		0	31	25	
			Dos Amigos Pumping Plant	86.73	278,268					
4	4	14	89.03 Thru 94.06	San Luis Water District	2,208	2,208	0			
				Pacheco Water District	117					
				Panoche Water District	31					
				City of Dos Palos	89					
				Check No. 14	95.06					
			98.15 Thru 104.20	San Luis Water District	183	183	0			
				Panoche Water District	943					
				(Floodwater Inflow)	0					
4	4	15	102.64	Broadview Water District	6	943	0			
				Westlands Water District	5,615					
				Check No.15	108.50					
			Reach 4 Subtotal:	9,192	9,192	0	0	0	0	
			San Felipe Division Total:	9,719	9,719	0	0	0	0	
			Pacheco Water District Total:	117	117	0	0	0	0	
			Broadview Water District Total:	6	6	0	0	0	0	
			City of Dos Palos Total:	89	89	0	0	0	0	
			SLWD Reach 4 Subtotal:	2,391	2,391	0	0	0	0	
			Panoche Water District Total:	974	974	0	0	0	0	
			SLWD Total:	2,584	2,584	0	0	0	0	
			Westlands WD Reach 4 Subtotal:	5,615	5,615	0	0	0	0	

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**November 2006**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
5	16			(Reverse flow, Kings River)	0	5,550		0	0		
				110.52	Westlands Water District	5,550					
				Thru	Dept. of Fish and Game @ Lat. 4L	0					
				122.05	Dept. of Fish and Game @ Lat. 6L	0					
					Dept. of Fish and Game @ Lat. 7L	0					
	17		Check No. 16	122.07		5,355	0	0			
				124.18	Westlands Water District				5,355		
				Thru 132.74							
	18		Check No. 17	132.95		6,091	131	0	0		
				133.81	Westlands Water District	6,091					
				Thru 142.61							
			Pleasant Valley Pumping Plant	143.16	Westlands Water District	4,430					
				143.16	City of Coalinga	131					
6	19		Check No. 18	143.23		21,557	21,557	0	0		
					Reach 5 Subtotal:	21,557					
				145.26	GWF Energy	2		1/ 2 2/ 191 3/ 1			
				Thru 151.19	City of Huron	0					
					Kings County to Lemoore NAS Through WWD	191					
					SWP Construction @ Lat. 22R	1					
			Check No. 19	155.64	Westlands Water District	5,819					
7	20				Reach 6 Subtotal:	6,013	5,819	194	0		
				156.34	City of Huron	87	87	231			
				156.40	SWP Construction @ Lat. 24R	0					
				Thru 163.69	Westlands Water District	5,388					
	21		Check No. 20	164.69		1,497	1,497				
				164.79	City of Avenal	231					
				167.04	Westlands Water District	1,497					
			Check No. 21	171.67							
				172.40		236,268					
					Reach 7 Total:	7,203	7,203	0	0		
					SWP Construction Total:	1	0	1	0		
					Westlands WD Total:	39,745	39,745	0	0		
					City of Coalinga Total:	131	131	0	0		
					City of Huron Total:	87	87	0	0		
					Kings County to Lemoore NAS Through WWD	191	0	191	0		
					City of Avenal Total:	231	231	0	0		
					Total San Luis Field Division Deliveries:	53,934	53,683	194	32		
									25		

1/ Transfer of Table A from County of Kings to GWF Energy.

2/ Long term POD - 181 AF of Table A water from County of Kings to Lemoore Naval Air Base and 10AF of Article 21 water from County of Kings.

3/ DWR Water Truck at 22R.

**Table 20. Consolidated State-Federal San Luis Canal 1/**Daily Operations  
November 2006United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley ProjectState of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Oct 31	28,845								
1	27,916	-929	0	5,686	14	40	718	5,288	-94
2	28,923	1,007	0	5,878	18	42	653	4,284	-373
3	29,819	896	0	5,087	18	42	653	3,628	-294
4	28,439	-1,380	0	5,280	18	42	653	5,362	99
5	28,909	470	0	4,934	18	42	653	3,959	-25
6	29,127	218	0	4,424	18	42	653	3,676	75
7	29,542	415	0	4,615	18	42	653	3,608	-85
8	29,535	-7	0	4,376	18	45	656	3,586	-75
9	28,862	-673	0	4,256	16	41	645	3,877	-16
10	29,009	147	0	4,668	16	41	645	3,806	-85
11	28,777	-232	0	4,349	16	41	645	3,825	61
12	29,445	668	0	3,851	16	41	645	2,906	94
13	28,769	-676	0	3,770	16	41	645	3,637	228
14	29,034	265	0	3,874	16	41	645	2,888	-150
15	28,505	-529	0	3,637	19	43	646	3,239	43
16	28,199	-306	0	3,691	16	42	697	3,162	72
17	28,089	-110	0	4,451	16	42	697	3,769	18
18	28,673	584	0	4,606	16	42	697	3,467	-90
19	28,556	-117	0	4,616	16	42	697	4,109	189
20	28,498	-58	0	5,149	16	42	697	4,510	87
21	29,004	506	0	5,580	16	42	697	4,547	-23
22	28,895	-109	0	5,096	19	42	702	4,448	60
23	29,560	665	0	5,685	15	45	682	4,944	336
24	28,954	-606	0	4,970	15	45	682	5,066	532
25	29,752	798	0	6,177	15	45	682	5,047	14
26	30,506	754	0	5,855	15	45	682	5,042	309
27	29,063	-1,443	0	2,822	15	45	682	3,067	260
28	26,624	-2,439	0	1,780	15	45	682	2,439	171
29	29,004	2,380	0	5,345	19	45	683	2,819	-579
30	28,697	-307	0	5,784	12	74	898	5,111	156
Total		-148	0	140,292	491	1,309	20,365	119,117	916
Mean cfs		---	0	4,676	16	44	679	3,971	31
Acre-feet		-148	0	278,269	974	2,597	40,394	236,268	1,816

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 117 AF to Pacheco W.D., 89 AF to the City of Dos Palos and 2,391 AF to San Luis Water District.

3/ Includes 87 AF to the City of Huron, 231 AF to the City of Avenal, 131 AF to the City of Coalinga, 0 AF to City of Huron P&amp;R @ 22R, 103 AF to Lemoore N.A.S. @ 29L, 88 AF to Lemoore N.A.S. @ 30L, 2 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 6 AF to Broadview WD @ 3L, 0 AF to DFG @ 4L, 0 AF to Pilibos Wildlife @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 1 AF DWR Water Truck for Arroyo @ 22R, 0 AF to DFG @ 7L, 4,430 AF to Pleasant Valley Pumping Plant, and 35,315 AF to Westlands Water District..

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

**November 2006**

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	178	178	82	75	82	5,138	5,388	4,990	4,914
2	380	380	82	75	84	4,100	3,736	3,408	3,458
3	418	418	89	81	88	2,822	2,989	2,735	2,710
4	371	371	95	84	94	5,298	5,313	5,142	5,067
5	180	180	103	92	102	3,758	4,215	4,053	3,817
6	27	27	18	17	19	3,476	3,619	3,439	3,347
7	0	0	0	2	2	3,733	3,788	3,739	3,535
8	0	0	3	0	0	3,689	3,750	3,666	3,534
9	0	0	0	0	0	3,914	3,872	3,723	3,597
10	0	0	0	0	0	3,914	3,872	3,723	3,597
11	0	0	0	0	0	4,153	4,097	3,936	3,888
12	0	0	1	1	1	3,325	3,715	3,473	3,319
13	0	0	1	1	1	3,248	3,767	3,676	3,576
14	0	0	1	1	1	2,619	2,610	2,473	2,480
15	0	0	0	0	0	3,196	3,304	3,135	3,029
16	0	0	0	0	0	3,389	3,284	3,135	3,136
17	84	84	0	0	0	3,192	3,440	3,296	3,225
18	41	41	26	23	28	3,490	3,344	3,293	3,252
19	56	56	40	37	43	4,616	4,795	4,592	4,613
20	105	105	49	45	48	4,486	4,721	4,547	4,500
21	170	170	97	90	98	4,807	4,600	4,760	4,874
22	130	130	82	81	82	4,466	4,638	4,509	4,473
23	63	63	75	69	76	3,087	3,081	2,996	3,046
24	71	71	77	70	76	451	641	568	522
25	121	121	83	76	84	1,249	908	879	829
26	95	95	81	74	84	4,835	4,778	4,575	4,578
27	96	96	50	46	51	5,143	5,299	4,977	4,864
28	113	113	71	66	73	5,127	5,126	4,801	4,748
29	114	114	59	55	60	5,723	6,016	5,719	5,723
30	142	142	56	53	58	4,739	4,832	4,561	4,534
Total	2,955	2,955	1,321	1,214	1,335	115,183	117,538	112,519	110,785

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

**November 2006**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			Table A	USBR	Article 21	Purchase Pool A	Purcahse Pool B	Other Table A		
	No.	Structure											
7	21	Check No. 21	172.40		236,268								
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	173	173							
				County of Kings TL - A	527	527							
				Tulare Lake Basin WSD - TL-A	4,024	3,978	46						
				175.18 Dudley Ridge WD - 1	843	317	526						
				177.54 Dudley Ridge WD - 1B	8	8							
				180.64 Tulare Lake Basin WSD - C	0	160							
				180.65 Dudley Ridge WD - 1A	160	971	403						
				182.99 Dudley Ridge WD - 2	1,374	9,392	3,627	23	47				
				Tulare Lake Basin WSD TL - B	13,089	714		4	9				
					727	2							
31A			184.00	Dudley Ridge WD - Paramount	2	748	564						
				184.63 Coastal Branch	2,955								
8D			184.78	Dudley Ridge WD - 3	1,312	2,206	0	1,493	0	0	0		
				Dudley Ridge Reach 8D Total:	3,699	13,370	0	3,673	23	47	0		
9	23		184.82	Check No. 22									
				189.69 Kern County Water Agency Lost Hills Water Dist. - 1	1,942	1,942							
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	343	343							
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	0								
				196.40 Kern County Water Agency Berrenda Mesa - 2	0								
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	0								
				KCWA Reach 9 Subtotal:	2,285	2,285	0	0	0	0	0		
10A	24		197.05	Check No. 23									
				201.24 Kern County Water Agency Lost Hills Water Dist. - 7	316	316							
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	298	298							
				204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0								
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	1	1							
				Check No. 24	207.94								
10A	25		207.94	209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	278	278							
				209.78 Kern National Wildlife Refuge USBR BV-1B	5,135		1/ 5,135						
					179	179							
				209.80 KCWA Semitropic WSD KCWA Semitropic WSD Penstocks	2,692	2,692							
					12,266	12,266							
				USBR Total:	5,135	0	5,135	0	0	0	0		
				KCWA Reach 10A Subtotal:	16,030	16,030	0	0	0	0	0		

1/ Water supplied by Rosedale Rio at O'Neill and then moved to Kern National Wildlife Refuge.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**November 2006**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			Table A	USBR	Article 21	Purchase Pool A	Purchase Pool B	Other Table A		
	No.	Structure											
11B	25		210.75	Kern County Water Agency Belridge - 2	0	539	539						
			214.11	Kern County Water Agency Belridge - 3	539								
			216.62	Kern County Water Agency Belridge - 4	0								
			217.13	Kern County Water Agency Belridge - 5A-C	2,734		2,734						
				Kern County Water Agency Belridge - 5D	121								
		Check No. 25	217.79										
				KCWA Reach 11B Subtotal:	3,394		3,394	0	0	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	296	296						
				Kern County Water Agency West Kern - 3	296								
		Check No. 26	224.92										
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0	39,930	1,913				2/ 3,503		
		Check No. 27	231.73		.								
	28		235.75	Kern County Water Agency Buena Vista - 2	0								
				Kern County WA CVC	45,346								
				DRWD CVC	0								
				Tulare Co.	0								
			238.04	Lower Tule River	0								
				Fresno Co.	0								
				Pixley ID	0								
				Hacienda DWR Wells	0								
	Check No. 28	238.11		1/ Arvin Edison Total:	0								
				Reach 12E Subtotal:	45,346	39,930	0	1,913	0	0	3,503		
13B	29		238.19	Kern Water Bank Inflow	0	10,432	1,124				3/ 502		
				Kern Water Bank Outflow	12,058								
			241.02	Kern River Intertie (inflow)	0								
			242.85	KCWA Buena Vista WSD - 7	4,097								
				KCWA Buena Vista WSD - 5	1,607								
		243.09		Kern County Water Agency Buena Vista - 3	3,042								
		Check No. 29	244.54										
	30		249.85	Kern County Water Agency Buena Vista - 4	298	298							
			250.99	Buena Vista Pumping Plant	115,183								
				KCWA Reach 13B Subtotal:	21,102	19,476	0	1,124	0	0	502		
14A	31		254.47	Kern County Water Agency West Kern - 2	0	36							
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	36								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Castaic Lake WA Table A water delivered to Rosedale Rio Bravo WSD for storage.

3/ Dudley Ridge WD Table A water delivered to Kern Water Bank for storage.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**November 2006**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	USBR	Article 21	Purchase Pool A	Purchase Pool B	Other Table A	
	No.	Structure	Mile									
14A	31	Check No. 31	256.14			107	107					
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	107							
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	358							
		Check No. 32	261.72			501	501	0	0	0	0	
				KCWA Reach 14A Subtotal:	501							
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	893	893	893					
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	327							
	Check No. 33		267.36									
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,155	1,155	1,155					
		Check No. 34	271.27									
				Reach 14B Total:	2,375	2,375	2,375	0	0	0	0	
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	472							
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	232	232	232				1/ 883	
			277.30	Kern County Water Agency Arvin-Edison WSD	883							
				Reach 14C Total:	1,587	704	704	0	0	0	883	
	Teerink Pumping Plant		278.13		117,538							
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	28	28	28					
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	1,036							
				Reach 15A Total:	1,064	1,064	1,064	0	0	0	0	
		Chrisman Pumping Plant	280.36		112,519							
16A	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0	21	21					
		Check No. 37	283.95									
			285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	21							
	38		286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	60	60	60					
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
		Check No. 38	287.09									
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	81	81	81					
		Check No. 39	290.21									
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	343	343	343	0	0	0	0	
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	2							
				Kern County Water Agency Tehachapi Cummings CWD	29							
				KCWA Reach 16A Subtotal:	536							
		Edmonston Pumping Plant	293.45		110,785							

1/ MWD Table A water delivered to Arvin Edison WSD for storage.

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

**November 2006**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Table A	USBR	Article 21	Purchase Pool A	Purchase Pool B	Other Table A	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		2,955	55	1,655	0	0	0	
		Las Perillas Pumping Plant	1.16		2,955						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		2,955						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0						
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	55						
			14.83	Kern County Water Agency Berrenda Mesa - 1	1,655						
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		1,321						
				KCWA Reach 31A Subtotal:	1,710	1,710	0	0	0	0	
				KCWA Total:	96,226	88,301	0	3,037	0	0	
33A	C-7	Bluestone Pumping Plant	19.05		1,214	1,046	259	0	0	0	
	C-8	Polonio Pass Pumping Plant	26.54		1,335						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0						
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,046						
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	259						
		Energy Dissipater	78.12								
	Lopez T.O.			SLOCFC & WCD	0						
35	C-12		85.86	CCWA Total:	1,305	1,305	0	0	0	0	
		Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
	So. Cal. Water T.O.	109.20		SBCFC & WCD	0						
38				SBCFC & WCD Total:	0	0	0	0	0	0	
	Tank Site 5	115.42									

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

November 2006

Date	West Branch					East Branch								East Branch Extension			
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley	
		Generation	Bypass	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume					
28	1	524	650	0	2,795	920	0	0	4,950	3,846	3,625	0	0	3,283	46	44	33
	2	845	753	0	3,121	935	0	0	2,913	2,660	3,311	0	0	3,219	39	37	33
	3	319	701	0	2,337	0	0	0	2,305	2,668	2,124	0	0	3,112	40	38	32
	4	528	0	0	445	0	0	0	4,604	2,843	2,618	0	0	3,056	23	22	32
	5	457	0	0	581	0	0	0	3,215	3,208	3,212	0	0	3,198	27	25	30
	6	681	669	0	3,376	6	0	0	3,050	2,777	2,520	0	0	3,068	54	51	27
	7	579	693	0	1,882	2,255	0	0	2,996	2,777	2,594	0	0	3,287	54	52	30
	8	793	1,020	0	816	873	0	0	3,020	2,777	2,757	0	0	3,379	47	45	32
	9	1,181	790	0	455	1,441	0	0	2,444	2,777	2,089	0	0	3,718	40	38	32
	10	424	734	0	2,083	2,628	0	0	3,020	2,777	2,938	0	0	3,463	38	37	32
	11	211	0	0	368	3	0	0	3,514	2,723	2,135	0	0	2,950	20	19	32
	12	557	0	0	371	1,548	0	0	2,951	2,777	2,545	0	0	3,359	28	26	31
	13	318	558	0	1,352	1,727	0	0	3,017	2,777	2,651	0	0	3,369	54	51	27
	14	0	0	0	1,957	559	0	0	2,964	2,777	2,682	0	0	3,659	53	52	30
	15	0	9	0	2,209	673	0	0	2,943	2,777	2,630	0	0	3,577	40	39	32
	16	0	0	0	1,330	1,337	0	0	3,256	2,768	2,605	0	0	3,434	53	52	32
	17	0	0	0	399	0	0	0	3,254	2,777	2,605	0	0	3,409	37	35	33
	18	0	0	0	42	0	0	0	3,859	3,051	2,421	0	0	3,286	26	25	32
	19	0	0	0	6	166	0	0	4,958	4,175	4,035	0	0	3,201	27	0	30
	20	0	0	0	0	0	0	0	5,207	4,091	4,018	0	0	3,353	53	50	28
	21	0	0	0	0	0	0	0	5,603	4,175	3,972	0	0	3,314	53	51	30
	22	0	0	0	90	0	0	0	4,644	4,175	4,241	0	0	3,522	53	51	32
	23	0	0	0	218	0	0	0	5,157	4,175	4,220	0	0	3,281	14	14	32
	24	0	0	0	92	0	0	0	4,785	4,175	4,198	0	0	3,485	53	50	29
	25	0	0	0	0	0	0	0	4,763	4,175	4,178	0	0	3,181	27	26	30
	26	0	0	0	0	0	0	0	4,687	4,175	4,149	0	0	2,637	26	24	29
	27	0	0	0	0	0	0	0	3,642	3,367	3,352	0	0	2,533	53	50	26
	28	0	0	0	0	0	0	0	397	384	576	0	0	2,201	53	51	30
	29	0	0	0	0	0	0	0	1,178	683	722	0	0	2,395	50	45	33
	30	0	0	0	0	0	0	0	4,901	3,987	3,705	0	0	2,633	29	27	32
	Total	7,417	6,577	0	26,325	15,071	0	0	108,197	93,274	89,428	0	0	95,562	1,210	1,127	923

1/ Values supplied by LADWP, not verified by DWR.

**Table 25. Pyramid Lake**  
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**November 2006**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	
				Project		Natural	Project		Natural	United Water Agency		
				Castaic Powerplant Pumpback 1/	Warne Powerplant	Stream Flow	Castaic Powerplant Generation 1/	Recreation Deliveries	To Piru Creek			
Oct 31	2575.73	166,987										
1	2574.68	165,650	-1,337	920	650	27	2,795	0	25	0	-114	
2	2573.54	164,207	-1,443	935	753	27	3,121	0	25	0	-12	
3	2572.18	162,496	-1,711	0	701	27	2,337	0	25	0	-77	
4	2571.23	161,308	-1,188	0	0	27	445	0	25	0	-745	
5	2570.76	160,722	-586	0	0	27	581	0	25	0	-7	
6	2569.01	158,553	-2,169	6	669	27	3,376	0	25	0	530	
7	2569.78	159,505	952	2,255	693	27	1,882	0	25	0	-116	
8	2570.73	160,685	1,180	873	1,020	27	816	0	25	0	101	
9	2572.27	162,609	1,924	1,441	790	28	455	0	25	0	145	
10	2573.10	163,652	1,043	2,628	734	27	2,083	0	25	0	-238	
11	2573.01	163,539	-113	3	0	28	368	0	25	0	249	
12	2573.74	164,460	921	1,548	0	28	371	0	25	0	-259	
13	2574.42	165,320	860	1,727	558	28	1,352	0	25	0	-76	
14	2573.19	163,766	-1,554	559	0	29	1,957	0	25	0	-160	
15	2572.03	162,308	-1,458	673	9	28	2,209	0	25	0	66	
16	2571.93	162,183	-125	1,337	0	29	1,330	0	25	0	-136	
17	2571.67	161,858	-325	0	0	29	399	0	25	0	70	
18	2571.62	161,795	-63	0	0	29	42	0	25	0	-25	
19	2571.79	162,008	213	166	0	29	6	0	25	0	49	
20	2572.40	162,772	764	0	0	29	0	0	25	0	760	
21	2571.68	161,870	-902	0	0	29	0	0	25	0	-906	
22	2571.65	161,833	-37	0	0	29	90	1	25	0	50	
23	2571.07	161,108	-725	0	0	29	218	0	25	0	-511	
24	2570.96	160,965	-143	0	0	29	92	0	25	0	-55	
25	2571.05	161,083	118	0	0	30	0	0	25	0	113	
26	2571.00	161,021	-62	0	0	30	0	0	25	0	-67	
27	2571.53	161,683	662	0	0	30	0	0	25	0	657	
28	2570.97	160,984	-699	0	0	30	0	0	25	0	-704	
29	2571.29	161,383	399	0	0	30	0	0	25	0	394	
30	2571.14	161,196	-187	0	0	30	0	0	30	0	-187	
Total				-5,791	15,071	6,577	853	26,325	1	755	0	-1,211

1/ Values supplied by LADWP, not verified by DWR.

**Table 26. Elderberry Forebay**

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

**November 2006**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Oct 31	1506.19	17,747								
1	1511.03	19,583	1,836	2,795	0	920	0	0	-39	
2	1516.40	21,732	2,149	3,121	0	935	0	0	-37	
3	1517.90	22,354	622	2,337	0	0	0	1,716	1	
4	1518.93	22,787	433	445	0	0	0	0	-12	
5	1520.30	23,369	582	581	0	0	0	0	1	
6	1528.19	26,850	3,481	3,376	0	6	0	0	111	
7	1521.96	24,083	-2,767	1,882	0	2,255	0	2,394	0	
8	1521.58	23,918	-165	816	0	873	0	0	-108	
9	1519.20	22,901	-1,017	455	0	1,441	0	0	-31	
10	1517.76	22,296	-605	2,083	0	2,628	0	0	-60	
11	1518.52	22,614	318	368	0	3	0	0	-47	
12	1515.70	21,445	-1,169	371	0	1,548	0	0	8	
13	1514.76	21,063	-382	1,352	0	1,727	0	0	-7	
14	1510.39	19,335	-1,728	1,957	0	559	0	3,127	1	
15	1513.88	20,708	1,373	2,209	0	673	0	0	-163	
16	1508.66	18,672	-2,036	1,330	0	1,337	0	2,027	-2	
17	1498.34	14,955	-3,717	399	0	0	0	4,117	1	
18	1498.20	14,907	-48	42	0	0	0	0	-90	
19	1497.62	14,709	-198	6	0	166	0	0	-38	
20	1493.75	13,421	-1,288	0	0	0	0	1,289	1	
21	1478.27	9,024	-4,397	0	0	0	0	4,396	-1	
22	1471.58	7,636	-1,388	90	0	0	0	1,468	-10	
23	1470.15	7,368	-268	218	0	0	0	274	-212	
24	1470.00	7,341	-27	92	0	0	0	820	701	
25	1470.00	7,341	0	0	0	0	0	0	0	
26	1470.00	7,341	0	0	0	0	0	0	0	
27	1470.00	7,341	0	0	0	0	0	50	50	
28	1470.00	7,341	0	0	0	0	0	75	75	
29	1470.00	7,341	0	0	0	0	0	0	0	
30	1470.00	7,341	0	0	0	0	0	0	0	
Total		-10,406	26,325	0	15,071	0	21,753	93		

1/ Values supplied by LADWP, not verified by DWR.

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**November 2006**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Oct 31	1470.50	232,892								
1	1469.54	231,112	-1,780	0	0	2	1,765	0	-17	
2	1468.67	229,506	-1,606	0	0	2	1,675	0	67	
3	1468.76	229,672	166	0	1,716	2	1,659	0	107	
4	1467.80	227,898	-1,774	0	0	2	1,689	0	-87	
5	1466.89	226,239	-1,659	0	0	2	1,758	0	97	
6	1465.91	224,451	-1,788	0	0	2	1,867	0	77	
7	1466.05	224,706	255	0	2,394	2	2,021	0	-120	
8	1464.98	222,759	-1,947	0	0	2	2,015	0	66	
9	1463.81	220,639	-2,120	0	0	2	2,015	0	-107	
10	1462.79	218,799	-1,840	0	0	2	1,869	0	27	
11	1460.83	216,949	-1,850	0	0	2	1,848	0	-4	
12	1460.89	215,392	-1,557	0	0	2	1,763	0	204	
13	1459.77	213,398	-1,994	0	0	2	1,863	0	-133	
14	1460.54	214,761	1,363	0	3,127	2	1,797	0	31	
15	1459.61	213,114	-1,647	0	0	2	1,792	0	143	
16	1459.67	213,220	106	0	2,027	2	1,864	0	-59	
17	1461.07	215,714	2,494	0	4,117	2	1,809	0	184	
18	1460.08	213,949	-1,765	0	0	2	1,799	0	32	
19	1459.09	212,191	-1,758	0	0	2	1,745	0	-15	
20	1459.16	212,316	125	0	1,289	2	1,866	0	700	
21	1459.40	212,741	425	0	4,396	2	1,911	0	-2,062	
22	1459.37	212,688	-53	0	1,468	2	1,740	0	217	
23	1459.72	213,309	621	0	274	2	1,586	0	1,931	
24	1459.30	212,554	-755	0	820	3	1,543	0	-35	
25	1458.36	210,900	-1,654	0	0	3	1,426	0	-231	
26	1457.55	209,473	-1,427	0	0	3	1,411	0	-19	
27	1457.07	208,629	-844	0	50	3	1,398	0	501	
28	1456.53	207,682	-947	0	75	3	1,379	0	354	
29	1455.63	206,109	-1,573	0	0	3	1,431	0	-145	
30	1454.78	204,629	-1,480	0	0	3	1,422	0	-61	
<b>Total</b>		<b>-28,263</b>		<b>0</b>	<b>21,753</b>	<b>67</b>	<b>51,726</b>	<b>0</b>	<b>1,643</b>	

1/ Values supplied by LADWP, not verified by DWR.

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

**November 2006**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Rec.	Article 21	Transfer	Local	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		7,417						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	1	1	1	1	1	
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
		Warne Power Plant	14.07		6,577						
29H	W3	Pyramid Lake		USFS		12	12	12	12	12	
				Pyramid Recreation (T300)	1						
				United WA (T300)	0						
29J	W4	Pyramid Dam	17.10	California State Park Piru Fish (T300)	0	48,182	1,752	1,549	231	0	
		Castaic Power Plant	25.82	( 15,071 AF pumpback ) 2/	26,325						
		Elderberry Forebay									
30 1/	W5	Forebay Dam	28.12			51,726	51,714	0	0	0	
		Castaic Lake		California State Park							
				Castaic Lake Recreation (T301)	12						
		Castaic Dam	31.47								
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	48,182						
				Castaic Lake WA 18", 24" & 54" (T303)	1,752						
				Castaic Lake WA Rio Vista T.P. (T304)	1,549						
				MWD-Ventura Co. WPD (T302)	231						
				Releases to Lagoon	0						
				Reach 30 Subtotal:	51,726						
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0	41					
		Castaic Lagoon Outlet	31.87								

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR

**Table 29. Silverwood Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**November 2006**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River		
Oct 31	3351.85	71,930											
1	3352.16	72,226	296	3,625	0	2	3		3,283	0	0	-45	10
2	3352.16	72,226	0	3,311	0	2	3		3,219	0	1	-90	10
3	3351.18	71,292	-934	2,124	0	2	3		3,112	0	0	55	10
4	3350.75	70,884	-408	2,618	0	2	3		3,056	0	0	31	10
5	3350.84	70,970	86	3,212	0	2	3		3,198	0	1	74	10
6	3350.25	70,412	-558	2,520	0	2	3		3,068	0	0	-9	10
7	3349.49	69,697	-715	2,594	0	2	3		3,287	0	0	-21	10
8	3348.79	69,042	-655	2,757	0	2	3		3,379	0	1	-31	10
9	3346.99	67,374	-1,668	2,089	0	2	3		3,718	0	0	-38	10
10	3345.75	66,233	-1,141	2,938	0	2	3		3,463	0	0	-615	10
11	3345.74	66,221	-12	2,135	0	2	2		2,950	0	1	804	10
12	3344.69	65,273	-948	2,545	0	2	3		3,359	0	0	-133	10
13	3343.96	64,614	-659	2,651	0	2	3		3,369	0	0	60	10
14	3342.61	63,405	-1,209	2,682	0	2	2		3,659	0	1	-231	10
15	3341.88	62,756	-649	2,630	0	2	2		3,577	0	0	298	10
16	3340.90	61,890	-866	2,605	0	2	3		3,434	0	0	-36	10
17	3340.05	61,144	-746	2,605	0	2	3		3,409	0	1	60	10
18	3339.04	60,264	-880	2,421	0	3	3		3,286	0	0	-15	10
19	3340.08	61,171	907	4,035	0	3	2		3,201	0	0	73	10
20	3340.50	61,538	367	4,018	0	3	2		3,353	0	1	-298	10
21	3341.29	62,234	696	3,972	0	3	2		3,314	0	0	38	10
22	3342.05	62,907	673	4,241	0	3	2		3,522	0	0	-47	9
23	3343.17	63,905	998	4,220	0	3	2		3,281	0	1	60	9
24	3343.90	64,560	655	4,198	0	3	2		3,485	0	0	-59	9
25	3345.14	65,682	1,122	4,178	0	3	2		3,181	0	0	124	9
26	3346.77	67,171	1,489	4,149	0	3	3		2,637	0	1	-22	6
27	3347.64	67,974	803	3,352	0	3	3		2,533	0	0	-16	3
28	3345.76	66,246	-1,728	576	0	3	3		2,201	0	0	-103	3
29	3343.99	64,641	-1,605	722	0	3	3		2,395	0	0	68	3
30	3345.22	65,754	1,113	3,705	0	3	3		2,633	0	0	41	3
Total				-6,176	89,428	0	71	80	0	95,562	0	9	-24
												264	

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**November 2006**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Oct 31	1560.30	69,472				
1	1560.22	69,326	-146		154	
2	1560.22	69,326	0		154	
3	1560.14	69,180	-146		200	
4	1560.00	68,925	-255		327	
5	1559.86	68,669	-256		254	
6	1559.78	68,524	-145		254	
7	1559.60	68,199	-325		254	
8	1559.59	68,175	-24		254	
9	1559.42	67,874	-301		254	
10	1559.01	67,132	-742		254	
11	1559.01	67,126	-6		255	
12	1558.79	66,743	-383		253	
13	1558.68	66,546	-197		253	
14	1558.54	66,297	-249		253	
15	1558.27	65,816	-481		253	
16	1558.18	65,656	-160		253	
17	1558.05	65,426	-230		253	
18	1558.08	65,479	53		253	
19	1556.73	63,095	-2,384		253	
20	1557.53	64,507	1,412		307	
21	1557.25	64,015	-492		352	
22	1557.12	63,787	-228		352	
23	1556.98	63,541	-246		362	
24	1556.70	63,053	-488		351	
25	1556.70	63,053	0		6	
26	1556.51	62,722	-331		5	
27	1556.57	62,826	104		253	
28	1556.62	62,913	87		96	
29	1556.65	62,965	52		5	
30	1556.62	62,913	-52		10	
<b>Total</b>			<b>-6559</b>	<b>1761</b>	<b>6737</b>	<b>-1583</b>

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

**November 2006**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending		Structure			Table A	Rec.	Article 21	Transfer	Local	Other	
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		110,785							
	41		298.65	KCWA Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0							
		Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Includes 0 AF of generation and 108,197 AF of flow down Cottonwood Chute)	108,197							
			306.71	AVEK 305th Street West (T287)	0							
			308.05	AVEK 294th Street West (T267)	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West (T269)	0							
		Check No. 44	314.81									
	45		314.93	AVEK 235th Street West (T270)	0							
			315.57	AVEK 225th Street West (T271)	0							
		Check No. 45	319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont (T272)	500							
				Mojave Water Agency Fairmont (T272)	50							
		Check No. 46	323.84									
				Reach 19 Total:	550							
20A	47	Check No. 47	326.77									
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	0							
			329.65	Antelope Valley-East Kern WA 120th Street West	Re-moved							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
20B	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	4,531							
				Antelope Valley-East Kern WA Rancho Vista (T275)	25							
				AVEK WA-Temp (T387)	11							
	51	Check No. 50	341.51									
	52		342.06	AVEK WA-Temp (T386)	4							
		Check No. 51	342.07									
	53		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0							
21	54	Check No. 52	343.74									
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	84							
		Check No. 53	348.17									
	55	Check No. 54	350.25									
	56	Check No. 55	352.70									
22A	57	Check No. 56	354.76									
			354.97	AVEK WA- Delivered through Littlerock Creek ID (T278)	0							
			354.97	Palmdale WD (T276)	998							
			354.97	Palmdale WD (T391)	0							
	58	Check No. 57	356.93									
	59		357.60	AVEK 95th Street East (T279)	0							
			357.72	AVEK 96th Street East (T280)	39							
			359.76	AVEK East Side Treatment Plant (T281)	336							

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

**November 2006**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Table A	Rec.	Article 21	Transfer	Local	Exchange	
	No.	Structure	Mile								
22B	58	Pearblossom Pumping Plant	360.61		93,274	2,027	2,086	6	74	1/ 264	
	59	Check No. 59	366.09								
	60		366.50	AVEK Big Rock Siphon (T368)	0						
		Check No. 60	373.94								
	61	Check No. 61	379.00								
	62	Check No. 62	384.26								
	63		389.20	Mojave Water Agency White Road 24" & 42" (T282)	2,027						
	64	Check No. 64	395.10								
	65	Check No. 65	400.32								
	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)	2,086						
23		Check No. 66	403.41								
		Mojave Siphon	405.58	Las Flores Ranch Exchange	264						
24	67	Mojave Siphon Powerplant	405.65		89,428						
				MWA CS DAM (T288)	0						
25	67	Silverwood Lake	407.65	California State Park							
				Silverwood (T288)	6						
26A	68		407.70	Crestline-Lake Arrowhead WA State-Project Water (T289)	74						
		San Bernardino Intake Tunnel			95,562						
28G	68	Devil Canyon Powerplant	412.73		95,562						
		Devil Canyon Afterbay Control Structures		MWD-Rialto (T292)	0						
				MWD-Rialto (T293)	34,023						
				Desert Water Agency							
				Transfer (T293)	5,500						
				Coachella Valley WD							
				Transfer (T293)	13,321						
				MWD EBX-1 (T290)	513						
28H	69			MWD EBX-1 (T291)	12,012						
				East Branch Extension	2,812						
28J	69	Santa Ana Valley Pipeline	425.46								
			433.06	MWD-SC							
28J	69	Lake Perris		Box Springs (T295)	6,667						
			440.05	MWD-SC							
				Perris Bypass Pipeline (T296)	20,214						
			442.00	MWD-SC (T297)	154						
				MWD-SC 54" & 78"							
				(T299)	6,583						
			443.44	Calif. State Park							
				Lake Perris Recreation (T298)	0						
				MWD Total:	147,400						

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow

2/ Includes 0 AF to San Gabriel Valley MWD, 751 AF to San Bernardino Valley MWD, and 931 AF to San Gorgonio Pass WA.

3/ Table A exchange from Dudley Ridge WD to San Gabriel Valley MWD.

**Table 32. Water Quality At Selected SWP Locations**

November 2006

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO <sub>3</sub>	38	72	62	56	58	56	62	62	66
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	0.1	<0.1
Bromide	mg/l	<0.01	0.02	0.16	0.15	0.14	0.11	0.11	0.10	0.09
Calcium	mg/l	8	13	15	15	17	15	16	16	16
Carbon - Dissolved Organic	mg/l as C	<0.5	2.4	2.5	2.3	2.4	2.3	2.4	2.3	4.3
Carbon - Total Organic	mg/l as C	<0.5	3.5	2.6	2.8	3.0	2.9	2.6	2.5	3.7
Chloride	mg/l	<1	10	50	49	47	37	36	34	32
Chromium	mg/l	<0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Copper	mg/l	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.005
Fluoride	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Hardness	mg/l as CaCO <sub>3</sub>	32	70	79	75	80	70	73	73	77
Iron	mg/l	0.005	0.006	0.015	0.011	0.008	0.006	0.005	0.006	0.013
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	3	9	10	9	9	8	8	8	9
Manganese	mg/l	<0.005	0.013	0.007	<0.005	0.007	<0.005	<0.005	<0.005	0.178
Nitrate + Nitrite	mg/l as N	<0.01	0.50	0.62	<0.01	0.81	0.76	0.72	0.68	0.58
Phosphorus-Ortho	mg/l as P	<0.01	0.06	0.05	<0.01	0.06	0.06	<0.01	0.06	0.06
Phosphorus-Total	mg/l	<0.01	0.12	0.08	<0.01	0.08	0.08	0.08	0.09	0.11
Selenium	mg/l	<0.001	<0.001	0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001
Sodium	mg/l	3	14	36	35	36	29	28	28	27
Specific Conductance	µS/cm	71	203	340	324	343	289	304	289	291
Sulfate	mg/l	2	12	21	22	27	23	22	22	20
Total Dissolved Solids	mg/l	44	119	188	178	192	167	167	165	171
Turbidity	NTU	1	38	6	5	3	4	3	3	2
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

**Table 33. Water Quality At Selected Delta Stations**

**November 2006**

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Rio Vista	Electrical Conductivity in milliSiemens/cm								Cl in mg/l		
			Net Delta Outflow Index			Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average		md	md	md	14dm	md	14dm	md	md	md		
38	1	5.36	3.84	3,861	3,861	7,978	3.11	8.98	0.92	0.83	0.73	0.67	0.27	0.89	0.29	40
	2	5.69	3.93	3,451	3,656	7,364	3.31	9.39	1.00	0.88	0.76	0.69	0.25	0.93	0.30	42
	3	5.99	4.01	3,738	3,683	7,695	3.52	9.57	1.11	0.93	0.83	0.72	0.26	0.94	0.31	40
	4	6.20	4.05	5,148	4,050	8,325	3.68	9.79	1.17	0.98	0.85	0.74	0.26	0.81	0.31	41
	5	6.33	4.02	5,389	4,317	8,582	3.75	10.05	1.23	1.02	0.93	0.77	0.27	0.75	0.32	43
	6	6.41	4.03	3,919	4,251	8,465	3.95	9.85	1.42	1.07	0.98	0.79	0.28	0.74	0.34	44
	7	6.57	4.18	5,130	4,377	8,740	4.33	10.45	1.76	1.12	1.15	0.82	0.29	0.72	0.34	45
	8	6.68	4.45	4,077	4,339	8,218	4.39	9.77	2.17	1.24	1.34	0.87	0.29	0.72	0.35	45
	9	5.07	4.00	2,613	4,147	8,083	4.40	9.60	1.39	1.28	1.11	0.90	0.29	0.81	0.37	48
	10	5.00	4.00	4,319	4,164	8,820	4.00	9.60	1.18	1.30	1.04	0.93	0.30	0.81	0.37	47
	11	5.00	4.00	3,817	4,133	8,773	3.75	9.60	1.07	1.31	1.00	0.94	0.32	0.82	0.38	48
	12	5.00	4.00	4,853	4,193	9,155	3.50	9.60	0.77	1.25	0.87	0.94	0.33	0.85	0.40	49
	13	5.11	4.57	4,927	4,249	9,274	4.28	0.00	0.98	1.23	0.95	0.95	0.32	0.81	0.41	50
	14	5.31	3.74	7,812	4,504	10,137	4.00	0.00	0.92	1.22	0.98	0.97	0.40	0.82	0.40	50
	15	5.28	3.58	8,481	4,769	10,697	3.52	0.00	0.70	1.21	0.89	0.98	0.40	0.79	0.46	56
	16	5.60	3.78	9,131	5,042	11,274	3.87	9.89	0.95	1.20	1.01	1.00	0.40	0.73	0.46	56
	17	5.74	3.85	8,145	5,224	11,210	3.92	10.03	0.94	1.19	1.07	1.01	0.40	0.71	0.46	56
	18	5.75	3.75	8,549	5,409	11,437	3.79	9.82	0.89	1.17	1.08	1.03	0.40	0.71	0.46	56
	19	5.90	3.86	5,298	5,403	10,326	4.16	9.98	1.12	1.16	1.17	1.05	0.35	0.72	0.46	60
	20	6.10	3.97	4,515	5,359	9,930	4.41	10.39	1.39	1.16	1.29	1.07	0.35	0.74	0.46	62
	21	6.30	4.15	4,454	5,316	9,729	4.74	10.96	1.69	1.15	1.46	1.09	0.37	0.76	0.49	66
	22	6.33	4.18	4,356	5,272	9,388	5.06	11.14	1.57	1.11	1.49	1.10	0.54	0.75	0.49	66
	23	6.06	4.11	4,265	5,228	9,534	4.53	10.40	1.13	1.09	1.37	1.12	0.40	0.77	0.50	68
	24	6.14	4.01	4,541	5,200	9,808	4.39	10.26	1.52	1.12	1.41	1.15	0.40	0.73	0.49	70
	25	6.03	4.09	4,403	5,168	9,857	4.27	10.30	1.46	1.15	1.39	1.17	0.40	0.72	0.49	70
	26	6.03	4.15	3,764	5,114	10,085	4.39	10.03	1.45	1.19	1.43	1.21	0.49	0.73	0.52	68
	27	5.36	4.03	4,780	5,101	10,446	4.36	10.20	1.22	1.21	1.31	1.24	0.47	0.81	0.54	68
	28	5.14	3.67	4,866	5,093	10,476	3.59	9.02	0.75	1.20	1.13	1.25	0.49	0.70	0.55	68
	29	4.40	3.04	6,162	5,130	10,779	2.73	0.00	0.59	1.24	1.07	1.28	0.48	0.65	0.58	78
	30	5.04	3.04	5,947	5,157	10,851	2.62	6.96	0.46	1.20	1.00	1.28	0.46	0.54	0.55	76

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

**November 2006**

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
NORTH BAY AQUEDUCT	September 20, 2006	Triclopyr	0.20
BARKER SLOUGH PUMPING PLA	September 20, 2006	2,4-D	0.10
HARVEY O.BANKS	September 20, 2006	2,4-D	0.20
DELTA PUMPING PLANT			
O'NIELL FOREBAY OUTLET	September 20, 2006	2,4-D	0.10
CHECK 13			
DELTA MENDOTA CANAL	September 20, 2006	2,4-D	0.40
UPSTREAM OF McCABE ROAD			
CALIFORNIA AQUEDUCT NEAR	September 19, 2006	2,4-D	0.10
KETTLEMAN CITY (CK 21)			
CALIFORNIA AQUEDUCT NEAR	September 19, 2006	2,4-D	0.20
HYW 119 (CHECK 29)			
CALIFORNIA AQUEDUCT AT	September 20, 2006	2,4-D	0.10
TEHACHAPI AFTERBAY (CK 41)		Chlorpyrifos	0.01
DEVIL CANYON HEAD WORKS	June 21, 2006	N.D.	-

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)		November 2006						
Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	7,611,650	0	38,700	28,160	2,570,290	2,570,290	70,450	670
2	5,217,210	0	37,340	27,580	2,527,350	2,527,350	10,650	590
3	7,414,700	0	32,480	25,860	2,665,810	2,665,810	410	610
4	5,376,000	0	37,900	31,150	3,055,610	3,055,610	149,970	610
5	2,242,490	0	29,000	23,590	2,593,080	2,593,080	142,930	610
6	7,260,800	60	32,850	24,720	3,361,180	3,361,180	181,730	620
7	9,032,090	0	36,770	31,230	2,572,340	2,572,340	200,940	570
8	6,612,470	0	34,460	27,600	2,460,320	2,460,320	178,770	620
9	5,470,950	0	35,590	27,530	3,217,160	3,217,160	187,730	620
10	7,273,030	0	37,470	27,380	2,666,220	2,666,220	175,940	720
11	5,858,620	0	32,470	27,240	2,734,690	2,734,690	185,990	650
12	1,639,440	0	28,370	26,660	3,228,730	3,228,730	129,440	750
13	6,514,530	0	26,800	22,090	2,470,590	2,470,590	89,250	700
14	5,841,690	0	30,760	26,390	2,414,620	2,414,620	78,240	620
15	4,408,890	0	29,880	27,460	2,654,090	2,654,090	78,530	760
16	5,431,420	0	25,930	21,490	3,123,450	3,123,450	88,010	690
17	4,728,870	0	24,730	23,150	3,093,530	3,093,530	89,980	620
18	1,514,850	690	26,630	28,170	2,989,930	2,989,930	114,710	660
19	1,863,480	1,490	24,640	26,370	3,057,600	3,057,600	124,560	670
20	7,918,310	580	24,450	23,630	3,153,940	3,153,940	156,750	640
21	7,708,720	2,410	25,340	25,380	2,922,090	2,922,090	136,250	630
22	5,865,600	2,940	28,630	26,080	3,685,740	3,685,740	147,350	770
23	762,630	12,030	32,880	37,170	2,998,150	2,998,150	119,040	770
24	4,069,320	3,330	33,220	35,570	3,102,810	3,102,810	119,080	840
25	3,948,850	4,200	31,610	35,550	3,239,840	3,239,840	144,410	830
26	2,397,400	4,380	29,500	37,380	3,639,680	3,639,680	129,890	840
27	12,667,520	1,660	30,300	35,270	3,731,700	3,731,700	99,860	840
28	1,948,570	10,190	34,440	37,810	3,734,060	3,734,060	89,040	850
29	6,250,820	4,430	37,220	42,400	3,727,060	3,727,060	74,570	860
30	8,078,580	3,400	27,940	36,950	3,821,660	3,821,660	74,730	850
Total	162,929,500	51,790	938,300	877,010	91,213,320	91,213,320	3,569,200	21,080

**Table 36. San Luis Field Division Energy Data**

(in kWh)

**November 2006**

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,493,940	1,221,940	0	0	1,112,360	-71,640
2	1,553,500	1,281,500	0	0	1,197,220	-24,780
3	1,376,560	1,104,560	0	0	1,374,410	-35,590
4	1,419,780	1,147,780	0	0	1,194,860	-27,140
5	1,286,730	1,022,730	0	0	1,373,160	-36,840
6	1,184,450	912,450	0	0	1,374,350	246,350
7	1,215,570	943,570	0	0	1,463,340	1,181,340
8	1,143,830	871,830	0	0	2,244,740	1,868,740
9	1,128,810	856,810	0	0	2,218,950	1,936,950
10	1,228,550	956,550	0	0	2,194,720	1,066,720
11	1,192,470	920,470	0	0	2,563,330	1,623,330
12	1,038,020	774,020	0	0	3,514,870	2,386,870
13	1,001,840	729,840	0	0	1,719,580	591,580
14	977,850	705,850	0	0	3,102,690	1,692,690
15	972,020	836,020	0	0	3,490,600	1,818,600
16	1,002,480	866,480	0	0	2,745,790	1,073,790
17	1,202,850	1,066,850	0	0	2,657,500	729,500
18	1,244,550	1,108,550	0	0	2,528,070	600,070
19	1,268,220	1,124,220	0	0	3,554,780	1,436,780
20	1,413,350	1,277,350	0	0	2,116,990	658,990
21	1,546,650	1,410,650	0	0	3,446,720	2,017,720
22	1,417,190	1,281,190	90,050	90,050	1,925,280	214,280
23	1,568,900	1,496,900	0	0	2,381,690	-18,310
24	1,440,170	1,360,170	0	0	1,980,840	428,840
25	1,711,490	1,631,490	0	0	1,697,660	145,660
26	1,629,470	1,557,470	0	0	2,373,010	-26,990
27	759,910	709,910	0	0	3,087,460	687,460
28	448,700	398,700	0	0	4,524,550	2,124,550
29	1,489,600	1,409,600	0	0	4,157,360	2,193,360
30	1,586,710	1,506,710	0	0	2,709,750	685,750
Total	37,944,160	32,492,160	90,050	90,050	72,026,630	27,168,630

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Pumping Plant Energy Load Data**

**November 2006**

(in kWh)

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	14,040	36,160	56,900	53,930	57,460	1,252,740	1,404,750	3,041,740	11,054,310
2	29,730	78,970	57,230	54,370	58,410	1,004,380	972,800	2,108,260	7,756,370
3	32,820	85,090	61,780	58,070	61,240	690,100	782,770	1,667,510	6,120,390
4	29,350	72,850	64,520	60,570	65,760	1,304,900	1,380,880	3,093,020	11,394,430
5	14,380	35,810	70,570	65,560	71,010	930,110	1,094,230	2,429,870	8,629,740
6	2,120	6,200	13,880	13,660	14,940	843,670	943,960	2,052,090	7,519,280
7	0	1,420	1,430	2,790	3,070	898,390	981,580	2,203,600	7,927,710
8	520	1,510	3,070	1,850	1,630	880,200	976,760	2,160,330	7,934,890
9	1,150	480	1,610	1,750	1,650	942,330	994,740	2,180,940	8,119,200
10	1,110	0	1,540	1,790	1,590	927,860	1,017,210	2,228,400	8,034,930
11	1,120	680	1,230	1,720	1,560	1,004,180	1,060,020	2,338,110	8,764,930
12	1,110	1,300	1,250	1,660	1,490	803,070	962,040	2,070,830	7,498,440
13	1,120	1,300	340	590	590	875,640	986,010	2,163,490	8,156,430
14	1,120	1,380	0	0	0	636,430	678,810	1,474,290	5,499,060
15	1,120	710	0	0	0	777,900	853,340	1,871,980	6,808,780
16	360	1,200	0	0	0	823,880	860,360	1,867,950	7,057,830
17	6,560	16,570	590	690	1,270	773,460	896,800	1,965,020	7,279,280
18	3,870	9,040	19,360	17,750	20,270	843,260	873,770	1,924,330	7,314,650
19	4,660	12,520	28,870	27,430	30,460	1,112,940	1,245,730	2,767,250	10,272,720
20	8,290	19,940	35,130	33,050	34,370	1,090,390	1,232,140	2,772,200	10,063,440
21	13,500	36,540	66,350	63,400	67,010	1,172,400	1,294,580	2,862,930	10,950,390
22	10,610	26,980	57,200	55,900	57,250	1,136,100	1,197,690	2,670,370	9,926,980
23	5,220	12,190	52,060	49,460	53,090	1,197,580	1,315,470	2,972,820	10,945,230
24	5,820	14,870	52,110	50,030	53,380	1,162,250	1,294,950	2,889,000	10,544,390
25	9,180	23,620	57,670	54,190	58,710	1,088,710	1,194,040	2,658,740	9,963,950
26	7,250	19,580	57,200	53,570	59,170	1,090,290	1,209,240	2,695,640	10,027,960
27	7,800	17,960	35,680	33,890	36,760	759,440	807,290	1,803,990	6,844,930
28	9,330	25,200	49,550	47,200	50,610	115,450	175,260	348,850	1,191,830
29	8,970	21,030	41,920	39,630	42,840	309,190	243,040	532,810	1,856,010
30	11,380	28,980	40,100	38,220	41,680	1,165,780	1,241,910	2,747,470	10,280,470
Total	243,610	610,080	929,140	882,720	947,270	27,613,020	30,172,170	66,563,830	245,738,950

**Table 38. Southern Field Division Energy Data**

(in kWh)

**November 2006**

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green Spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	143,347	403,530	480,000	0	2,591,884	3,864,834	266,772	28,649	36,839	469
2	225,624	465,670	480,000	0	1,800,847	3,815,566	257,308	24,877	31,213	450
3	89,535	432,560	480,000	0	1,809,472	3,715,190	148,141	25,201	31,908	450
4	144,574	0	480,000	0	1,912,383	3,636,116	198,606	15,518	18,970	450
5	126,248	0	480,000	0	2,151,326	3,786,570	255,676	17,904	21,262	460
6	182,149	422,160	480,000	0	1,865,593	3,673,645	186,363	34,502	42,931	506
7	157,792	428,060	480,000	0	1,866,261	3,970,797	195,273	34,463	43,268	516
8	210,931	631,000	480,000	0	1,866,291	4,023,991	215,546	30,043	37,911	478
9	303,327	487,480	480,000	0	1,863,858	4,353,372	160,512	25,535	32,116	441
10	117,347	461,230	480,000	0	1,861,675	4,093,127	236,521	25,417	30,866	422
11	63,040	0	480,000	0	1,826,152	3,538,123	169,017	13,367	16,232	431
12	150,683	0	480,000	0	1,862,921	3,998,645	210,354	18,238	22,145	441
13	89,614	352,970	1,200,000	0	1,863,260	3,985,156	211,472	33,677	42,484	394
14	7,257	0	1,200,000	0	1,864,447	4,304,005	216,990	33,530	43,020	431
15	6,842	5,210	1,200,000	0	1,864,666	4,211,264	211,106	25,162	32,245	450
16	6,653	660	1,200,000	0	1,857,478	4,056,260	209,553	33,756	43,030	431
17	6,594	0	1,200,000	0	1,865,264	4,033,544	210,601	23,650	29,437	431
18	6,455	0	1,200,000	0	2,083,519	3,874,199	200,890	17,374	21,113	460
19	6,426	0	1,200,000	0	2,793,898	3,803,333	337,223	17,894	21,203	506
20	6,525	0	0	0	2,740,080	3,988,914	339,705	33,834	42,058	535
21	6,277	0	0	0	2,794,028	3,943,473	336,877	33,844	42,951	460
22	6,337	0	0	0	2,794,457	4,160,255	341,189	33,667	43,129	413
23	6,426	0	0	0	2,791,366	3,868,127	336,570	9,910	11,638	413
24	6,653	0	0	0	2,794,566	4,124,644	332,002	33,579	42,107	413
25	6,653	0	0	0	2,795,773	3,823,635	328,936	17,776	21,887	431
26	6,644	0	0	0	2,795,224	3,218,503	322,567	17,099	20,409	441
27	6,871	0	0	0	2,263,519	3,106,408	259,326	33,707	42,078	441
28	7,396	0	0	0	270,419	2,715,071	41,021	33,765	43,020	460
29	7,297	0	0	0	476,002	2,943,651	58,693	29,169	36,948	600
30	7,396	0	0	0	2,685,932	3,213,499	309,810	18,670	22,552	600
Total	2,118,911	4,090,530	14,160,000	0	62,672,562	113,843,918	7,104,618	773,777	966,971	13,825

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.